

Title (en)
LIQUID CRYSTAL DISPLAY SCREEN AND DISPLAY DEVICE

Title (de)
FLÜSSIGKRISTALLANZEIGEBILDSCHIRM UND ANZEIGEVORRICHTUNG

Title (fr)
ÉCRAN D’AFFICHAGE À CRISTAUX LIQUIDES ET DISPOSITIF D’AFFICHAGE

Publication
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Application
EP 13854211 A 20131010

Priority

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Abstract (en)
[origin: US2015109560A1] A liquid crystal display (LCD) and a display device are disclosed. The LCD is provided with a plurality of pixel units; each pixel unit includes a plurality of sub-pixel units for displaying different colors; quantum dot (QD) layers capable of allowing backlight to run through are disposed at positions of an array substrate, corresponding to the sub-pixel units of at least one color of the pixel units; the QD layers are excited by ultraviolet light in sunlight and emit light which at least is of the color of the sub-pixel units; and color filters are disposed between the QD layers and the opposing substrate. The LCD has enhanced display brightness and higher outdoor viewability in the case of outdoor display.

IPC 8 full level
G02F 1/1335 (2006.01); **B82Y 30/00** (2011.01); **G02F 1/1362** (2006.01); **C09K 11/56** (2006.01); **G02B 5/20** (2006.01); **G02F 1/1333** (2006.01); **G02F 1/13363** (2006.01)

CPC (source: EP US)
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